

AP Calculative Functions 1

Part 9: Multiple Choice

Select the best answer for each question. Show your work and justify your solution for each problem.

8.

The company below provides maintenance for the population of heights, in inches, for a single gender sample of 1000 participants.

Mean: 68 inches
Median: 67 inches
Standard Deviation: 3 inches
First Quartile: 65 inches
Third Quartile: 69 inches

About 95% probability the people have heights that are

- (A) less than 65 inches
- (B) less than 69 inches
- (C) between 65 and 69 inches
- (D) between 68 and 72 inches
- (E) more than 68 inches

Justification:

Normality rule is 95%, which was used to find the value for standard dev. However, the standard dev. height is more than 3 inches, so we use the 95% rule to determine it.

9.

The company below provides weekly earnings for two different categories of employees (see below).

Company A		Company B
60, 62, 64, 66, 68, 70, 72, 74, 76, 78	60	62, 70, 78, 86
80, 82, 84, 86, 88, 90, 92, 94, 96, 98	61	64, 66, 67, 68, 69, 70, 71, 72
99, 100, 101, 102	62	65, 67, 68
103, 104, 105, 106	63	

Which of the following statements is true?

- (A) The median of the earnings of Company A is less than the median of the earnings of Company B.
- (B) The range of the earnings of Company A is smaller than the range of the earnings of Company B.
- (C) The third quartile of Company A is greater than the third quartile of Company B.
- (D) The mean of the earnings of Company A is greater than the mean of the earnings of Company B.
- (E) The interquartile range of Company A is greater than the interquartile range of Company B.

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RJ Alexander



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